



# Fire Protection Training

Procedures Handbook 4300

MOBILE EQUIPMENT

**TOPIC:** How to Use Bulldozer Swamper Hand Signals

**TIME FRAME:** 30 Minutes

**LEVEL OF INSTRUCTION:**

**BEHAVIORAL OBJECTIVE:**

*Condition:* A flashlight and verbal commands

*Behavior:* Student will demonstrate the proper hand signals for bulldozer maneuvering and winch operation under simulated fireground conditions.

*Standard:* With a minimum of 70% accuracy

**MATERIALS NEEDED:**

- Flashlight
- Bulldozer (if available)
- Appropriate visual aids
- Audio visual equipment

**REFERENCES:** None

**PREPARATION:** It may become necessary for any fire suppression employee to signal a bulldozer. It is important that the meaning of your signal is understood by the dozer operator. Using standard signals will avoid confusion and create a safer working environment.



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HOW TO USE BULLDOZER  
SWAMPER HAND SIGNALS

## OPERATIONS

## KEY POINTS

### BULLDOZER MANEUVERING SIGNALS

1. Reverse or back up
  
2. Stop or shut down
  
3. Turn
  
4. Caution

Information sheet #1

- 1a. While in operators view
  - b. With right arm fully extended
  - c. Hand open
  - d. Make continuous circling motions in front of the body
  - e. Until completion of the maneuver
- 2a. While in operator's view
  - b. With right arm extended
  - c. In front of the body
  - d. At chest height
  - e. With the palm down
  - f. Swing arm repeatedly to the left and right side of the body
  - g. Motion parallel to the ground
- 3a. In operator's view
  - b. Using arm on side of body to which turn is to be made
  - c. Fully extend arm to full upright position (overhead and perpendicular)
  - d. Hand open
  - e. Repeated downward sweeps of the arm to the area of the thigh
- 4a. In operator's view
  - b. With right arm fully extended over the head
  - c. Hand open
  - d. Repeated overhead arcs from level of right shoulder to level of left shoulder

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## OPERATIONS

## KEY POINTS

5. Move vehicle right

- 5a. Facing the winching vehicle
- b. With left arm flexed slightly to the left side of the body
- c. At head height
- d. Left hand in a fist
- e. Point thumb to the left
- f. Thumb parallel to the ground



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***APPLICATION:***

Student to practice until proficient.

***EVALUATION:***

A performance examination.

***ASSIGNMENT:***

To be determined by instructor(s).

## POINTS

### **BULLDOZER MANEUVERING SIGNALS**

Upon the command "Reverse or Back Up"

1. While in the bulldozer operator's view with right arm fully extended and palm open 5
2. Make continuous full circle motions in front of the body until the maneuver is completed 10

Upon command "Stop or Shut Down"

3. While in the bulldozer operator's full view with the right arm fully extended to the front of the body at chest height and with the palm open and down 10
4. Swing arm repeated to the right and left side of the body in a motion parallel to the ground 10

Upon the command "Turn Left or Turn Right"

5. While in the bulldozer operator's full view, with the arm on the side of the desired turn fully extended over the head, and hand open, make repeated downward arm sweeps to the thigh area 10

Upon the command "Caution"

6. While in the bulldozer operator's full view with the right arm fully extended over the head and the hand open, make repeated overhead arcs from the level of the right shoulder to the level of the left shoulder 10

### **BULLDOZER WINCH SIGNALS**

7. While facing the winching vehicle, the student will fully extend the right arm to the right side of the body at shoulder height 5
8. With the right hand in a fist and the thumb in a raised position 5

# Performance Examination

## POINTS

Upon the command "Wind the Cable Out"

9. While facing the winching vehicle, the student will fully extend the left arm to the left side of the body at shoulder height 5

Upon the command "Stop"

10. With the left hand in a fist and the thumb in a position pointed toward the ground 5

Upon the command "Stop"

11. While facing the winching vehicle, the student will fully extend both arms to the front of the body at shoulder height 5

12. With both palms extended outward and perpendicular to the ground 5

Upon the command "Move the Vehicle to the Left"

13. While facing the winching vehicle, the student will flex the right arm slightly to the right of the body at head height 5

14. With the right hand in a fist and the thumb pointed to the right and parallel to the ground 5

Upon the command "Move the Vehicle to the Right"

15. While facing the winching vehicle, the student will flex the left arm slightly to the left of the body at head height 5

16. With the left hand in a fist and the thumb pointed to the left and parallel to the ground 5

**ENTER TOTAL TIME:**     :

**POINTS POSSIBLE:** 100

**POINTS DEDUCTED:**

**POINTS**

**FINAL SCORE:**

**EVALUATOR'S SIGNATURE:**

**DATE:**

**COMMENTS:**

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